```
RESULT 1
AK045869
LOCUS
             AK045869
                                      4642 bp
                                                  mRNA
                                                          linear
                                                                    HTC 02-SEP-2005
DEFINITION
            Mus musculus adult male corpora quadrigemina cDNA, RIKEN
             full-length enriched library, clone:B230315M08 product:MMAC8
             precursor. (MAIR-Ib), full insert sequence.
ACCESSION
             AK045869
VERSION
             AK045869.1 GI:26337658
KEYWORDS
             HTC; CAP trapper.
SOURCE
             Mus musculus (house mouse)
  ORGANTSM
            Mus musculus
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
             Sciurognathi; Muroidea; Muridae; Murinae; Mus.
REFERENCE
 AUTHORS
             Carninci, P. and Hayashizaki, Y.
  TITLE
             High-efficiency full-length cDNA cloning
  JOURNAL
             Meth. Enzymol. 303, 19-44 (1999)
   PUBMED
             10349636
REFERENCE
             2
  AUTHORS
             Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
             Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
  TITLE
             Normalization and subtraction of cap-trapper-selected cDNAs to
             prepare full-length cDNA libraries for rapid discovery of new genes
  JOURNAL
             Genome Res. 10 (10), 1617-1630 (2000)
   PUBMED
             11042159
REFERENCE
  AUTHORS
             Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
             Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M.,
             Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
             Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
             Fujiwake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M.,
             Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J.,
             Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
  TITLE
             RIKEN integrated sequence analysis (RISA) system--384-format
             sequencing pipeline with 384 multicapillary sequencer
  JOURNAL
             Genome Res. 10 (11), 1757-1771 (2000)
   PUBMED
             11076861
REFERENCE
  AUTHORS
             Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y.,
             Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S.,
             Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I.,
             Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R.,
             Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T.,
             Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H.,
             Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G.,
             Quackenbush, J., Schriml, L.M., Staubli, F., Suzuki, R., Tomita, M.,
             Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H.,
             Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N.,
             Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C.,
             Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D.,
             Hofmann, M., Hume, D.A., Kamiya, M., Lee, N.H., Lyons, P.,
             Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P.,
             Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H.,
             Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K.F., Suzuki, H.,
             Toyo-oka, K., Wang, K.H., Weitz, C., Whittaker, C., Wilming, L.,
             Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S.
             and Hayashizaki, Y.
  CONSRTM
             RIKEN Genome Exploration Research Group Phase II Team and the
             FANTOM Consortium
  TITLE
             Functional annotation of a full-length mouse cDNA collection
  JOURNAL
             Nature 409 (6821), 685-690 (2001)
   PUBMED
             11217851
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Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H., Batalov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V., Chothia, C., Corbani, L.E., Cousins, S., Dalla, E., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawaji, H., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J.C., Reed, D.J., Reid, J., Ring, B.Z., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Hayatsu, N., Hirozane-Kishikawa, T., Konno, H., Nakamura, M., Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Rogers, J., Birney, E. and Hayashizaki, Y.

CONSRTM

FANTOM Consortium; RIKEN Genome Exploration Research Group Phase I & II Team

TITLE

Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

JOURNAL

Nature 420 (6915), 563-573 (2002)

PUBMED 12466851

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AUTHORS

Carninci, P., Kasukawa, T., Katayama, S., Gough, J., Frith, M.C., Maeda, N., Oyama, R., Ravasi; T., Lenhard, B., Wells, C., Kodzius, R., Shimokawa, K., Bajic, V.B., Brenner, S.E., Batalov, S., Forrest, A.R., Zavolan, M., Davis, M.J., Wilming, L.G., Aidinis, V., Allen, J.E., Ambesi-Impiombato, A., Apweiler, R., Aturaliya, R.N., Bailey, T.L. Bansal, M., Baxter, L., Beisel, K.W., Bersano, T., Bono, H., Chalk, A.M., Chiu, K.P., Choudhary, V., Christoffels, A., Clutterbuck, D.R., Crowe, M.L., Dalla, E., Dalrymple, B.P., de Bono, B., Della Gatta, G., di Bernardo, D., Down, T., Engstrom, P., Fagiolini, M., Faulkner, G., Fletcher, C.F., Fukushima, T., Furuno, M., Futaki, S., Gariboldi, M., Georgii-Hemming, P., Gingeras, T.R., Gojobori, T., Green, R.E., Gustincich, S., Harbers, M., Hayashi, Y., Hensch, T.K., Hirokawa, N., Hill, D., Huminiecki, L., Iacono, M., Ikeo, K., Iwama, A., Ishikawa, T., Jakt, M., Kanapin, A., Katoh, M., Kawasawa, Y., Kelso, J., Kitamura, H., Kitano, H., Kollias, G., Krishnan, S.P., Kruger, A., Kummerfeld, S.K., Kurochkin, I.V., Lareau, L.F., Lazarevic, D., Lipovich, L., Liu, J., Liuni, S., McWilliam, S., Madan Babu, M., Madera, M., Marchionni, L., Matsuda, H., Matsuzawa, S., Miki, H., Mignone, F., Miyake, S., Morris, K., Mottagui-Tabar, S., Mulder, N., Nakano, N., Nakauchi, H., Ng, P., Nilsson, R., Nishiguchi, S., Nishikawa, S., Nori, F., Ohara, O., Okazaki, Y., Orlando, V., Pang, K.C., Pavan, W.J., Pavesi, G., Pesole, G., Petrovsky, N., Piazza, S., Reed, J., Reid, J.F., Ring, B.Z., Ringwald, M., Rost, B., Ruan, Y., Salzberg, S.L., Sandelin, A., Schneider, C., Schonbach, C., Sekiguchi, K., Semple, C.A., Seno, S., Sessa, L., Sheng, Y., Shibata, Y., Shimada, H., Shimada, K., Silva, D., Sinclair, B., Sperling, S., Stupka, E., Sugiura, K., Sultana, R., Takenaka, Y., Taki, K., Tammoja, K., Tan, S.L., Tang, S., Taylor, M.S., Tegner, J., Teichmann, S.A., Ueda, H.R., van Nimwegen, E., Verardo, R.,

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Wei, C.L., Yagi, K., Yamanishi, H., Zabarovsky, E., Zhu, S., Zimmer, A.,
             Hide, W., Bult, C., Grimmond, S.M., Teasdale, R.D., Liu, E.T.,
             Brusic, V., Quackenbush, J., Wahlestedt, C., Mattick, J.S., Hume, D.A.,
             Kai, C., Sasaki, D., Tomaru, Y., Fukuda, S., Kanamori-Katayama, M.,
             Suzuki, M., Aoki, J., Arakawa, T., Iida, J., Imamura, K., Itoh, M.,
             Kato, T., Kawaji, H., Kawagashira, N., Kawashima, T., Kojima, M.,
             Kondo, S., Konno, H., Nakano, K., Ninomiya, N., Nishio, T., Okada, M.,
             Plessy, C., Shibata, K., Shiraki, T., Suzuki, S., Tagami, M., Waki, K.,
             Watahiki, A., Okamura-Oho, Y., Suzuki, H.; Kawai, J. and Hayashizaki, Y.
             FANTOM Consortium; RIKEN Genome Exploration Research Group and
  CONSRTM
             Genome Science Group (Genome Network Project Core Group)
  TITLE
             The transcriptional landscape of the mammalian genome
   JOURNAL
             Science 309 (5740), 1559-1563 (2005)
    PUBMED
             16141072
REFERENCE
  AUTHORS
             Katayama, S., Tomaru, Y., Kasukawa, T., Waki, K., Nakanishi, M.,
             Nakamura, M., Nishida, H., Yap, C.C., Suzuki, M., Kawai, J., Suzuki, H.,
             Carninci, P., Hayashizaki, Y., Wells, C., Frith, M., Ravasi, T.,
             Pang, K.C., Hallinan, J., Mattick, J., Hume, D.A., Lipovich, L.,
             Batalov, S., Engstrom, P.G., Mizuno, Y., Faghihi, M.A., Sandelin, A.,
             Chalk, A.M., Mottagui-Tabar, S., Liang, Z., Lenhard, B. and
             Wahlestedt, C.
  CONSRTM
             RIKEN Genome Exploration Research Group; Genome Science Group
              (Genome Network Project Core Group); FANTOM Consortium
   TITLE
             Antisense transcription in the mammalian transcriptome
   JOURNAL
             Science 309 (5740), 1564-1566 (2005)
    PUBMED
             16141073
 REFERENCE
                (bases 1 to 4642)
   AUTHORS
             Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
             Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
             Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
             Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
             Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
             Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
             Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
             Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
             Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,
             Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
             Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
             Muramatsu, M. and Hayashizaki, Y.
   TITLE
             Direct Submission
   JOURNAL
             Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
             Physical and Chemical Research (RIKEN), Laboratory for Genome
             Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
             RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
             Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp,
             URL: http://genome.gsc.riken.jp/, Tel:81-45-503-9222,
             Fax:81-45-503-9216)
COMMENT
             cDNA library was prepared and sequenced in Mouse Genome
             Encyclopedia Project of Genome Exploration Research Group in Riken
             Genomic Sciences Center and Genome Science Laboratory in RIKEN.
             Division of Experimental Animal Research in Riken contributed to
             prepare mouse tissues.
             Please visit our web site for further details.
             URL:http://genome.gsc.riken.jp/
             URL: http://fantom.gsc.riken.jp/.
· FEATURES
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Qy
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Qy	781	${\tt CGGCTGGTCAAAGCTGATAGGCATCCAGAGCTGTCCCAGAACCTCAGACAGGCTTCTGAG}$	840
D b	958	CGGCTGGTCAAAGCTGATAGGCATCCAGAGCTGTCCCAGAACCTCAGACAGGCTTCT	1017
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Qy	901	FTGCTACCAAGTCAGGTAGAAGTGGTGGAATATAGCACATTGGCATTACCCCAGGAAGAG	960
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Qy	.1081	GGACTCTCTGACCTTTACCTGTGACTCCTTGTCACCTGATCCTCTCAGTGGTGACTACC	1140
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Qγ	1141	GGTTCCAAGGCTCCCTGCTGGCTGCCCTCAATGTCATGAGCCTCAGTGGCTTCACTA	1200
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